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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/975,759	10/11/2001	Henry M. Hund JR.	0554300/2006	9472	
75	590 12/01/2003	EXAMINER			
David J. Hill			FOX, CHARLES A		
Chambliss, Bah Two Union Squ	ner & Stophel, P.C.	ART UNIT	PAPER NUMBER		
1000 Tallan Bu		3652 DATE MAILED: 12/01/2003			
Chattanooga, T	N 37402				

Please find below and/or attached an Office communication concerning this application or proceeding.

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•			Applicatio	n No.	plicant(s)				
[^] Office Action Summary			09/975,75)	HUND ET AL.				
	Omce Action Gammary		Examiner	_	Art Unit				
	The MAILING DATE of this commun		Charles A.		3652	ldro oo			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (3) period for reply is specified above, the maximum stare to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(anunication. 0) days, a reply with atutory period will a will, by statute, car	a). In no ever ithin the statul apply and will use the appli	ot, however, may a reply be time ory minimum of thirty (30) day, expire SIX (6) MONTHS from the cation to become ABANDONE	nely filed s will be considered time the mailing date of this c D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) file	ed on <u>15 Sep</u> r	tember 20	<u>003</u> .					
2a)⊠	This action is FINAL . 2	?b)⊡ This ac	tion is no	n-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	☑ Claim(s) <u>1-17</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
· · · · · · · · · · · · · · · · · · ·	5) Claim(s) <u>7-17</u> is/are allowed.								
•	6) Claim(s) <u>1-6</u> is/are rejected.								
	Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.									
Applicati	on Papers								
9) The specification is objected to by the Examiner.									
10)⊠	The drawing(s) filed on <u>07 February</u>				-	ner.			
	Applicant may not request that any object		• • •		` '	5D 4 404(I)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120									
	• •	for foreign n	vriority uno	lor 35 S C & 110/a) (d) or (f)				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 									
Attachmen	t(s)								
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449) P			4) Interview Summary 5) Notice of Informal P 6) Other:					

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Claim Objections

The labeling of claims 18-20 in paper number 9 was incorrect. Those claims were cancelled in paper number 6 in response to a restriction requirement, as such they should be listed as cancelled after the claim number and the claim should not be presented.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Breckenridge in view of Armstrong In regards to claim 1 Brekenridge US 4,401,407 teaches an apparatus for lifting a container so as to empty its contents into a collection bin, said apparatus comprising:

a container grab assembly (32)which includes a pair of opposed grabbing arms in a spaced relationship that are operable by a fluid operated actuating system (110) to grab and release a container;

an articulated arm (30) that is operable by a fluid operated actuator (36) through a cycle that includes retracted, extended, lifting and dumping positions.

Brekenridge does not teach the lifting arm as having multiple articulated joints.

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Armstrong US 3,952,890 teaches an articulated lifting arm comprising:

a base link (1);

an upper link (20) having a first and second end;

a reach link (7) having a first end pivotally attached to the base link, and a second end pivotally attached to the upper link;

a lift arm (5) having a first and second end, one of said end connected to a lifting device (3);

a system of hydraulic actuators (9,11,140 for movement of the articulated structure;

wherein during movement of said arm the base link and the upper link remain substantially parallel with each other;

It would have been obvious to one of ordinary skill in the art, at the time of invention to provide the apparatus taught by Brekenridge with an articulated arm as taught by Armstrong in order to allow the device to pick up containers at close distances from the vehicle thereby allowing the vehicle to operate in areas with restricted spaces such as alleyways.

In regards to claim 2 Brekenridge further teaches that the apparatus is mounted on a collection vehicle near a collection bin.

In regards to claim 3 Brekenridge also teaches the actuation members of the apparatus comprise double acting hydraulic cylinders.

Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brekenridge in view of Armstrong as applied to claim 1 above, and further in view of

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Pickrell. In regards to claims 4 and 5 Brekenridge in view of Armstrong teach the limitations of claim 1 as above they do not teach a gear assembly being used on the gripping device. Pickrell US 5,026,104 teaches a gripping assembly for lifting a container for emptying, said gripper comprising:

a side support arm (29), having a first and second end where said first end is attached to a lift arm;

a gear box that is mounted on said second end of said support arm, said gear box including a left gear (38 and a right gear (35);

a right shaft (33) on which right gear is mounted;

a left shaft (34) on which left gear is mounted;

a drive link (40) with a first and a second end, where said first end is mounted on said right shaft;

a left grabbing arm (52) mounted on said left shaft;

a right grabbing arm mounted on said right shaft;

a grabber cylinder (43) having a base end and a rod end, one of said ends being mounted on the side support arm and the other being attached to said second end of said drive link;

wherein said relationship between said gears, drive link and grabber cylinder are such that retraction of the cylinder rod will move the grabbing arms from an open position to a grab position.

It would have been obvious to one of ordinary skill in the art, at the time of invention to provide the apparatus taught by Brekenridge in view of Armstrong with a

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grabber as taught by Pickrell in order to be able to pick up containers of various sizes and shapes without having to adjust the gripping mechanism to suit the container being picked up.

In regards to claim 6 it would have been obvious to one of ordinary skill in the art, at the time of invention to enclose the gear mechanism of Brekenridge as modified by Pickrell as it is a well known expedient to place gears in a closed box to protect them from the elements as well as providing a means to easily lubricate the gears.

Allowable Subject Matter

Claims 7-17 are allowed as discussed in the previous office action mailed on July 8, 2003.

Response to Amendment

The amendments to the claims, abstract and specification have been entered into the record.

Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are most in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Charles A. Fox whose telephone number is 703-605-

4294. The examiner can normally be reached between 7:00-5:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eileen D. Lillis can be reached at 703-308-3248. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

1113.

EILEEN D. LILLIS

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